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|  |  |  |   |
|--|--|--|---|
| (51) International Patent Classification <sup>6</sup> :<br><br>H05B 37/02  |  | A1   | (11) International Publication Number: <b>WO 98/19502</b><br><br>(43) International Publication Date: 7 May 1998 (07.05.98) |
| (21) International Application Number: PCT/BR97/00049<br><br>(22) International Filing Date: 12 September 1997 (12.09.97)  |  | (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). |   |
| (30) Priority Data:<br>PI 9605455 25 October 1996 (25.10.96) BR  |  | Published<br><i>With international search report.</i>  |   |
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(54) Title: REMOTE CONTROL OF PUBLIC ILLUMINATION BY COMPUTER

## (57) Abstract

Patent of invention of a system of control of public illumination, constituted by a central station, that sends commands for wave of radio to small microprocessed controllers, each one controlling one lamp.

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## REMOTE CONTROL OF PUBLIC ILLUMINATION BY COMPUTER

Remote Control Of Public Illumination By Computer refers the present invention to a system of control of public illumination of streets, avenues and squares, constituted by a computerized central station, that sends commands by wave of radio to small controllers each one controlling one lamp, turning on, turning off or varying the intensity of the illumination of this lamp.

The commands sent by the central station are digital, so that with a unique frequency of wave carrier it is possible to control each lamp individually.

Each command is a digital code, that identifies a controller and the brightness that is desired for the controlled lamp.

10 All the controllers receive all the digital codes, when a controller recognizes that the received digital code correspond to it, it executes the variation of brightness according to the information contained in this code.

The controllers are microprocessed and in the absence of a command, after a period of certain time, they are capable to realize a control standard scheduled 15 previously.

## CLAIMS

- 1 - Remote control of public illumination by computer , characterized by control of the public illumination starting from a computerized central station.
- 2 - Remote control of public illumination by computer , in agreement with the claim 1, characterized by sending digital codes in an unique frequency of radio for control of the illumination intensity.
- 3 - Remote control of public illumination by computer , in agreement with the claims1 and 2, characterized by small controllers microprocessed for each lamp that should be controlled.
- 4 - Remote control of public illumination by computer , in agreement with the claims 1, 2 and 3, characterized by small controllers microprocessed that receive digital commands for wave of radio.
- 5 - Remote control of public illumination by computer , characterized by controllers microprocessed that in the absence of a command, after a certain period of time, they are capable to realize a standard control scheduled previously.

# INTERNATIONAL SEARCH REPORT

Internal Application No  
PCT/BR 97/00049

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 H05B37/02

According to International Patent Classification(IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category | Citation of document, with indication, where appropriate, of the relevant passages     | Relevant to claim No. |
|----------|--|-----------------------|
| X        | WO 96 18983 A (MARCOUX PAUL A) 20 June 1996<br>see the whole document<br>---           | 1-5                   |
| X        | US 5 254 908 A (ALT LARRY G ET AL) 19 October 1993<br>see abstract; figures 2,3<br>--- | 1-5                   |
| A        | EP 0 582 287 A (SMEASIT S R L) 9 February 1994<br>-----                                |                       |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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1

Date of the actual completion of the international search

12 December 1997

Date of mailing of the international search report

22/12/1997

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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